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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/142,108	03/29/1999	FILU PA BRUGLIERA	11658	1756
	OTT MURPHY & PRI	EXAMINER		
	CITY PLAZA Y, NY 11530	NELSON, AMY J		
	•		ART UNIT	PAPER NUMBER
			1638	35
			DATE MAILED: 07/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.



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SERIAL NUMBER	FILING DATE		FIRST NAMED APPLICANT	1	ATTORNEY DOCKET NO.
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EX	AMINER
ART UNIT	PAPER NUMBER
	35

DATE MAILED:

Below is a communication from the EXAMINER in charge of this application

#### COMMISSIONER OF PATENTS AND TRADEMARKS

	<b>ADVISORY ACTION</b>	<b>k</b>	
THE PERIOD FOR RESPONSE:		e Property	
a) is extended to run	or continues to run	from the date of the final rejection	
b) expires three months from the date event however, will the statutory pe	of the final rejection or as of the mailing deriod for the response expire later than six	ate of this Advisory Action, whichever is late months from the date of the final rejection.	r. In no
The date on which the response, the purposes of determining the period	e petition, and the fee have been filed is to of extension and the corresponding amou	36(a), the proposed response and the appropriate date of the response and also the date font of the fee. Any extension fee pursuant to be propriate or as set forth in b) above	or the 37 CFR
Appellant's Brief is due in accordance v	vith 37 CFR 1,192(a).		
Applicant's response to the final rejection to place the application in condition for		nsidered with the following effect, but it is not	deemed
1. The proposed amendments to the d	aim and /or specification will not be entere	ed and the final rejection stands because:	
a. There is no convincing showing presented.	ng under 37 CFR 1.116(b) why the propos	ed amendment is necessary and was not ea	rlier
b. They raise new issues that we	ould require further consideration and/or se	earch (See Note)	
c. They raise the issue of new m	and the second second	in (ood rollo).	
			24.4
appeal.	e the application in better form for appeal	by materially reducing or simplifying the issu	es for
e.   They present additional claim	s without cancelling a corresponding num	ber of finally rejected claims.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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		in Claimso 148 Zel by the	
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2. Newly proposed or amended claims	would be allowed if	submitted in a separately film amendment of	ancelling
the non-allowable claims.	This been		
3. Upon the filing an appeal, the propobe as follows:		vill not be entered and the sand of the claim	ıs will 😓 🚱
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Amy / less	
Claims allowed: 3 5 / -10		AMY J. NELSON, PH.D.	
Claims rejected: 6 11 -24 2	6 27 30 33-37	SUPERVISORY PATENT EXAM	MNEH
However;		TECHNOLOGY CENTER 10	
Applicant's response has overco	ome the following rejection(s): Object	in to specification 117.	
SECOND TE Ection			
The affidavit, exhibit or request for re	econsideration has been considered but do	pes not overcome the rejection because (	
(Ct > SEQ 10 NO; 7,	8,10-13 20-25) HEAVY	the to the lost strickie	35
5. The affidavit or exhibit will not be cor	sidered because applicant has not shown	good and sufficent reasons why it was not	earlier
presented.	San transport of the control of the		SANT SANT
The proposed drawing correction ha	as 🔲 has not been approved by the exa	miner.	^
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### PROPOSED EXAMINER'S AMENDMENT

- 1. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance. During a telephone conversation conducted on 7/1/03, Frank DiGiglio requested an extension of time for 1 MONTH(S) and authorized the Commissioner to charge Deposit Account No. 19-1033 the required fee of \$520 for this extension and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. The application has been amended as follows:

### In the Claims:

At Claims 6, and 11-13, line 2, "comprising" has been changed to --consisting of--.

Claim 14 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:2, or the complement of said nucleic acid molecule.

Claim 15 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:4, or the complement of said nucleic acid molecule.

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Claim 16 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:6, or the complement of said nucleic acid molecule.

Claim 17 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:8, or the complement of said nucleic acid molecule.

Claim 18 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:10 or SEQ ID NO:11 or SEQ ID NO:12 or SEQ ID NO:13, or the complement of said nucleic acid molecule.

Claim 19 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:15, or the complement of said nucleic acid molecule.

Claim 20 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:17, or the complement of said nucleic acid molecule.

Claim 21 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:19, or the complement of said nucleic acid molecule.

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Claim 22 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:21, or the complement of said nucleic acid molecule.

Claim 23 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:23, or the complement of said nucleic acid molecule.

Claim 24 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:25, or the complement of said nucleic acid molecule.

Claim 26 (twice amended). A [genetic] <u>DNA</u> construct capable of reducing expression of an endogenous gene encoding a flavonoid 3'-hydroxylase in a plant, said [genetic] <u>DNA</u> construct comprising a nucleotide sequence selected from the group consisting of:

- (i) a nucleotide sequence encoding an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, [SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13,] SEQ ID NO:15, SEQ ID NO:17, and SEQ ID NO:19, [SEQ ID NO:21, SEQ ID NO:23, and SEQ ID NO:25]; and
- (ii) a nucleotide sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, [SEQ ID NO:7,] SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, [SEQ ID NO:20, SEQ ID NO:22 or SEQ ID NO:24,] and [the coding region in] nucleotides 1478 to 3897 of SEQ ID NO:9.

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Claim 27 (twice amended). A method for producing a transgenic plant which synthesizes a flavonoid 3'-hydroxylase, said method comprising:

stably transforming a cell of a plant with the nucleic acid molecule according to any one of claims [3-24 under conditions wherein said nucleic acid molecule is expressed] 3-5, 7-10, and 15-21 to produce a transformed cell;

regenerating a transgenic plant from the transformed cell; and

growing said transgenic plant [for a time and under conditions] wherein the nucleic acid molecule is expressed.

Claim 33 (twice amended). A transgenic plant having flower tissue exhibiting altered colour, said transgenic plant comprising a nucleic acid molecule [which comprises a sequence of nucleotides] selected from the group consisting of:

- (i) a nucleotide sequence encoding an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, [SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13,] SEQ ID NO:15, SEQ ID NO:17, and SEQ ID NO:19, [SEQ ID NO:21, SEQ ID NO:23, and SEQ ID NO:25]; and
- (ii) a nucleotide sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, [SEQ ID NO:7,] SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, [SEQ ID NO:20, SEQ ID NO:22 or SEQ ID NO:24,] and [the coding region in] nucleotides 1478 to 3897 of SEQ ID NO:9.

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Claim 34 (twice amended). [The] A cut flower from the transgenic plant according to claim 33.

Claim 35 (twice amended). [The] A seed from the transgenic plant according to claim 33.

Claim 36 (twice amended). [The] A fruit from the transgenic plant according to claim 33.

Claim 37 (twice amended). [The] A leaf from the transgenic plant according to claim 33.

### In the Specification:

The Title of the Invention has been changed to:

--NUCLEIC ACID SEQUENCES ENCODING FLAVONOID 3'-HYDROXYLASE
AND METHODS OF ALTERING FLOWER COLOR THEREWITH--

The Abstract of the Invention has been amended as follows:

At line 1, "genetic" has been changed to --nucleic acid--.

At lines 1-2, "flavonoid pathway metabolising enzyme and more particularly to" has been deleted.

At line 3, "or derivatives thereof" has been deleted.

At line 4, before "plants" -- flowers of-- has been inserted.

At line 4, "and other organisms" has been deleted.

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3. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Amy J. Nelson whose telephone number is (703) 306-3218. The examiner

can normally be reached on Monday-Friday from 8:30 AM - 5:00 PM.

The fax phone number for this Group is (703) 308-4242 or (703) 305-3014.

Any inquiry of a general nature or relating to the status of this application, or if the

examiner cannot be reached as indicated above, should be directed to Customer Service 1600,

whose telephone number is (703) 305-0198.

Amy J. Nelson, Ph.D.

July 7, 2003